

America Recycles Day in Kansas Teachers Guide: K-8 Grades

Across the nation, November 15 is proclaimed America Recycles Day to raise awareness about the importance of recycling and buying recycled-content products. The folks at *Kansas Don't Spoil It!* proclaim November 15 as **Kansas Recycles Day** to help support the national campaign.

Teaching our youth about recycling and buying recycled is very important. We are pleased to provide this educational packet for your use, particularly during the week of **NOVEMBER 15**.

The teachers guide contains materials for Kindergarten through eighth grade in the following categories:

Spelling Words Math Problems
Daily Oral Language Exercises Fun Activity Sheets

We hope you will help us celebrate America Recycles Day in Kansas by incorporating these usable lessons into your schedule during the week of November 15. We invite you to join other students and teachers across the state in a simultaneous learning experience. Please feel free to make copies of any of these materials for your students.

We would like to thank the State of Illinois and the Illinois Recycling Association for sharing this educational resource with the teachers of Kansas.

Contact Kansas toll free at 800-282-9790 if you have any questions about this teachers guide or would like any additional information. Or, visit our website at:

for other educational opportunities.



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America Recycles Day in Kansas Spelling Words



<u>Easy</u>	<u>Moderate</u>	Difficult
Trash Water	Reduce Reuse	bauxite environment
Land glass	Recycle Garbage	precycle manufacture
Can	landfill	pollution
Tin	Rinse	aluminum
waste steel	Earth Plastic	corrugated biodegradable
recycle	Energy	leachate
green	Toxic	methane
burn	cover	compost
	paper cardboard	resource hazardous
	Bury	incinerator
	Freon	emission
	organic	economical
_		organic
	ና ጉ 🤛	asphalt





America Recycles Day in Kansas Math Problems Grades 1 - 8



Easy (first grade)

- 1. Tom has 10 cans. He takes six to the recycling center. Draw a picture and write a number sentence to show how many cans Tom has left.
- 2. Molly had eight pounds of newspapers. She took half of them to the recycling center. Draw a picture and write a number sentence to show how many pounds of newspapers were recycled.

Easy (second grade)

- Kevin has 27 glass jars. Eleven of them are brown, four are green, and 12 of them are clear. The recycling center only accepts brown and clear glass for recycling. Draw a picture and write a number sentence to show how many glass jars Kevin can take to be recycled.
- 2. Sally and Dan are sorting their recyclables. They take the aluminum cans to the recycling center. The man at the recycling center pays them \$1.50 for their cans. They decide to share the money evenly. How much money does each person receive?

Easy (third grade)

- 1. The recycling center pays 25 cents per pound for aluminum cans. Jan took seven pounds of aluminum cans to be recycled. How much money did Jan earn at the recycling center?
- 2. If the average person throws away four pounds of garbage every day, how many pounds of garbage does one person throw away in one year (365 days)?

Easy (fourth grade)

- 1. If 10 percent of the money you spend on groceries is for packaging and you spend \$75 at the grocery store, how much money was spent on packaging?
- 2. Bob made \$1.60 by recycling aluminum cans. He wants to buy a drink and a candy bar at the store. A drink costs 50 cents and a candy bar costs 45 cents. How much money will Bob have left?



Moderate (fifth grade)

- 1. Monica pays \$9.50 per month for trash service. She is allowed to have two barrels of trash per week. Monica decides to start recycling and only sets out one barrel of trash each week. By having only one barrel of trash each week, the cost of her trash service decreases by 30 percent. How much does Monica pay for trash service now?
- 2. Stan, Frank, and Tony are on the baseball team. They need to raise \$150 for new uniforms. They have an aluminum can collection at their school. Each week they make \$25 at the recycling center from the cans they collect. How long will it take them to raise enough money for their new uniforms?

Moderate (sixth grade)

- 1. Approximately 30 percent of our garbage is paper or paper products. If the average person throws away 1,460 pounds of trash a year, how many pounds of this trash is paper or paper products?
- 2. Americans throw away 2.5 million plastic bottles every hour. How many plastic bottles are thrown away in one day in America?

Moderate (seventh grade)

- 1. Considering that one tree produces 117 pounds of paper, if your school sends 5,850 pounds of paper to the recycling center, how many trees would be saved by recycling?
- 2. Twice a month, Carol takes 24 pounds of aluminum cans to the recycling center. The recycling center pays 28 cents a pound. How much money will Carol earn in a year?

Moderate (eighth grade)

- 1. Approximately 11 percent of municipal solid waste is yard waste (grass clippings, branches, leaves). If the average household throws away 5,520 pounds of solid waste each year, how much trash would it throw away each year by composting yard waste?
- 2. The average American uses 580 pounds of paper each year. If you recycle 4.5 pounds of newspapers each week, 11 pounds of magazines each year, and 23 pounds of paper each month, how many pounds of paper will you send to the landfill in one year after recycling?



America Recycles Day in Kansas Daily Oral Language



- 1. recycled content means its made of stuff that has been used before
- 2. if you buy recycled products they don't need to use new stuff
- the word recyclable does not mean the same as recycled
- 4. you have to read the label to see if somethings recycled
- 5. did you buy recycled paper this time
- 1. lots of things are made from what we recycle
- 2. we can buy paper thats recycled
- 3. I have a shirt hat and gloves that is made of recycled material
- 4. this soda can could be a new soda can in just 2 months
- 5. the new sleeping bag I got for my birthday is stuffed with filling made from old soda bottles
- 1. at the grocery store there are lots of things in recycled packages
- 2. almost all cereal cracker and cake mix boxes are made of recycled paper
- 3. sometimes paper towels and tissues are made with recovered material
- 4. if its been recycled we call that recovered material
- 5. steel cans and glass jars also contain recovered material
- 1. we should recycle because it saves natural resourses
- 2. it takes less energy to make recycled products
- 3. recycled aluminum for example takes 95% less energy than making aluminum from bauxite ore
- in most cases making things from recycled materials makes less air and water pollution
- 5. things that you recycle dont have to go to landfills



America Recycles Day in Kansas "A Trashy Story with a Happy Ending"



Before reading the following interactive story, review the key to the actions with the children. When the children are familiar with the actions and sounds, read the story slowly. Each time you come to an underlined word, pause, and help the children do the corresponding action and sounds. Be sure to use lots of expression.

KEY

cat: meow sweetly, once dog: bark loudly, twice

sunset: sigh loudly, "oooh - aaah!" garbage: hold nose and say, "phew"

foolish thing: point with finger and say, "shame, shame" Mr. Rooster: give a cheerful "cock-a-doodle-doo"

smart thing: clap and yell "all right"

Once upon a time there was a <u>cat</u>. She lived next door to her best friend, the <u>dog</u>. Every evening they sat on the porch and watched the beautiful <u>sunset</u>. One day a very <u>foolish thing</u> happened. Neighbors began to throw away their <u>garbage</u> across the road from the <u>dog</u> and <u>cat</u>. The <u>garbage</u> piled up so high that they could no longer see the beautiful <u>sunset</u>. The <u>dog</u> said, "We must do something about this <u>foolish thing!</u>" So they went to see the mayor, **Mr. Rooster**.

The <u>cat</u> and the <u>dog</u> told <u>Mr. Rooster</u> about the <u>garbage</u>, and that they no longer were able to see the <u>sunset</u>. <u>Mr. Rooster</u> was worried about the <u>foolish thing</u> that had happened, too. So he told the <u>cat</u> and the <u>dog</u> about three very <u>smart things</u> they could do about the <u>garbage</u> problem.

Mr. Rooster told them about the first <u>smart thing</u>. It was to reduce. That meant not to buy or use disposable things like paper plates and styrofoam cups - those were <u>foolish things</u>. By using plates and cups that could be washed and used again, less <u>garbage</u> would be thrown away.

Mr. Rooster told them about the second <u>smart thing</u>. It was to reuse. That meant to stop throwing away toys, clothes, furniture, books and plastic containers that were still useful. To throw away good, useful things like these was a <u>foolish thing</u> to do. Unwanted, useful items can be given to family members, friends or charitable organizations.

Then <u>Mr. Rooster</u> told them about the third <u>smart thing</u>. It was to recycle. That meant to stop throwing away things like plastic bottles and containers, paper, glass bottles and jars, and steel and aluminum cans, because that was a <u>foolish thing</u> to do. The <u>smart thing</u> would be to collect these things and put them in a recycling bin to be picked up, or to take them to the recycling center.

The <u>cat</u> and the <u>dog</u> were very happy they had learned about the three <u>smart things</u>. Now they could cut down on making <u>garbage</u>. They told all their neighbors what <u>Mr. Rooster</u> had said about reducing, reusing, and recycling. This was a <u>smart thing</u> to share with their neighbors. Instead of doing <u>foolish things</u> like making too much <u>garbage</u>, all the neighbors started doing the <u>smart things</u>. They reduced, reused and recycled everything they could. Soon, the <u>garbage</u> pile that had once been so tall became less and less. The <u>cat</u> and the <u>dog</u> could once again enjoy the beautiful <u>sunset</u>. Now that was a <u>smart thing!</u>



Kids, Get Involved!



America Recycles Day in Kansas Vocabulary "Waste Words"



- 1. **Waste** (noun): Worthless material that is produced while making something. (Factory wastes can be handled responsibly.)
- 2. **Garbage** (noun): Things like food scraps and wrappers that are thrown out from a kitchen. (The garbage can is under the sink.)
- 3. **Scrap** (noun): Material that is left over or thrown out, especially metal that can be used for something else. (Tom sold his old car for scrap.)
- 4. **Trash** (noun): Dry material that is thrown away. (The office trash needs to be taken out.)
- 5. **Junk** (noun): Something that no longer can be used and is ready to be thrown away. (The attic is full of old junk.)
- 6. **Debris** (noun): The scattered pieces or remains of something that has been broken, destroyed or thrown away. (The tornado left the streets full of debris.)
- 7. **Refuse** (noun): Something useless or worthless. (Refuse is hauled to the landfill.)
- 8. **Rubbish** (noun): Useless material. (The alley is littered with rubbish.)
- 9. **Rubble** (noun): Pieces of stone, rock, or other solid material. (All that was left of the building after demolition was a pile of rubble.)
- 10. **Litter** (noun): Scraps of waste materials left lying around or not in their proper place. (Paper scraps on the classroom floor are litter.)



America Recycles Day in Kansas Recycle Crossword



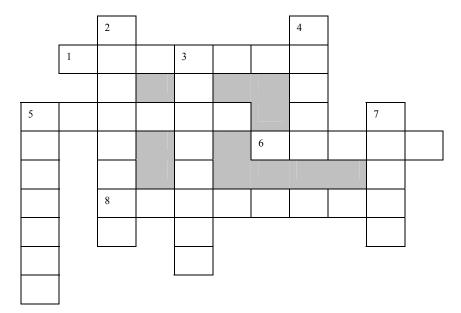
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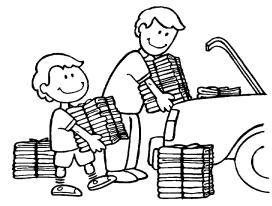
ACROSS

- I. food wastes
- 5. cut down on how much we throw away
- 6. recyclable cans are made of this
- 8. a liquid resulting from rain moving down through landfills

DOWN

- 2. a method of disposing of refuse on land without creating hazards
- 3. a good place for a compost pile
- 4. to use something again
- 5. to process waste material for use in manufacturing
- 7. a recyclable material used in schools every day







America Recycles Day in Kansas Garbage Crossword

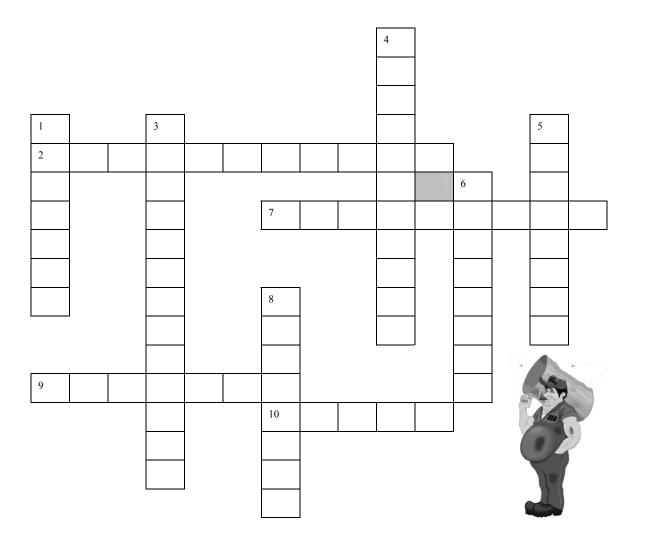


ACROSS

- 2. everything that surrounds living organisms
- 7. matter that is not animal or vegetable
- 9. matter that is animal or vegetable
- 10. soil-like material that results from composting

DOWN

- a gas formed by the decomposition of wastes
- 3. capable of being broken down by biological processes
- 4. a place where solid wastes are burned
- 5. how poisonous something is
- 6. a method of disposing of refuse on land
- 8. liquid resulting from rain moving down through landfills





America Recycles Day in Kansas Solid Waste Crossword



ACROSS

- decomposition which occurs in the presence of oxygen
- 4. cut down the amount of waste created
- 6. a recyclable material
- 7. a recyclable material
- 9. a recyclable material
- 11. to use a product again without remanufacturing
- 12. dry waste
- 16. everything that surrounds us
- 17. a microscopic living thing
- 20. a way to dispose of waste by burying it in a carefully prepared area of land
- 21. a recyclable, used with 7 across

DOWN

- 2. a mixture of decomposing organic matter used to improve the soil
- 3. the flow of trash: from the source to its final end use or disposal
- 5. term for collecting recyclables in front of homes
- 8. single-celled organisms
- 10. a material that is recycled in some places
- 13. waste that is harmful is
- 14. how long some waste lasts, for_____
- 15. to process waste material for manufacturing use
- 17. a group of recyclable materials including steel and aluminum
- 18. unsafe method of disposal, ____ dump
- 19. upper layer of earth

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17			18						19				
		20											
								-		=	21		



America Recycles Day in Kansas Puzzle Answers



RECYCLE CROSSWORD

Across: I garbage Down: 2 landfill

5 reduce 3 backyard 6 metal 4 reuse 8 leachate 5 recycle 7 paper

GARBAGE CROSSWORD

Across: 2 environment Down: I methane

7 inorganic 3 biodegradable 9 organic 4 incinerator 10 humus 5 toxicity 6 landfill

8 leachate

SOLID WASTE CROSSWORD

Across: I aerobic Down: 2 compost

4 reduce 3 waste stream
6 steel 5 curbside
7 paper 8 bacteria
9 glass 10 plastic
11 reuse 13 hazardous

12 trash14 ever16 environment15 recycle17 microorganism17 metal20 landfill18 open21 news19 soil



America Recycles Day in Kansas Environmental Bingo



Choose words from this list to write in the blank squares on your bingo sheet. Make sure you have a different word for each space.

composting: the process of breaking down yard waste,

such as leaves and grass clippings, and organic solid waste, such as fruits and vegetables, to make a soil-like product called compost or humus. Compost adds nutrients to the soil.

vermi-composting: the process of using redworms to turn organic

waste, such as fruits and vegetables, into a nutrient-rich soil additive that help plants and

flowers grow bigger and better.

conserve: Trying not to use as much.

consumer: a person that buys and uses goods.

environment: everything around you - such as soil, water,

and air.

glass: a substance made from sand, soda ash and

limestone. (All these raw materials are found

beneath ground.)

incinerator: a facility used to burn garbage.

landfill: a system of garbage disposal where the

waste is buried.

natural resources: naturally occurring materials such as plants,

animals, soil, minerals, water, and air.

packaging: the covering or wrapping material of items.

pulp: a mixture of tree fibers and water used to make

paper.

reduce: is cutting down on the amount of garbage we

make.

reuse: using an item again.

recycle: to collect, process and make materials into

new products.

closed-loop recycling: to collect, process and turn a material back into

that same product. For example, an aluminum can may be recycled and made into another

aluminum can.

#1 PET plastic: a pop bottle is an example of this type of plastic.

This plastic may be recycled and made into T-shirts, shoestrings and carpet, for example.

#2 HDPE plastic: milk jugs and laundry detergent bottles are

examples of this kind of plastic. This plastic could be used to make wall dividers and lumber.

solid waste: all materials that are thrown away as trash and

handled as solids, as opposed to those that are flushed down sewers and handled as liquids.

steel: is made from iron ore, a mineral that is found

underneath the ground.

toxic: something that can be harmful to people or the

environment.

waste-free lunch: packing your lunch in reusable containers that

get washed and used again and again, and put

in a reusable lunch bag.

ENVIRONMENTAL BINGO WORD LIST

(cut and put words into a container)

closed-loop recycling	reduce
composting	reuse
conserve	recycle
consumer	steel
environment	solid waste
glass	toxic
incinerator	vermi-composting
landfill	waste-free lunch
natural resources	packaging
#1 PET plastic	#2 HDPE plastic
pulp	

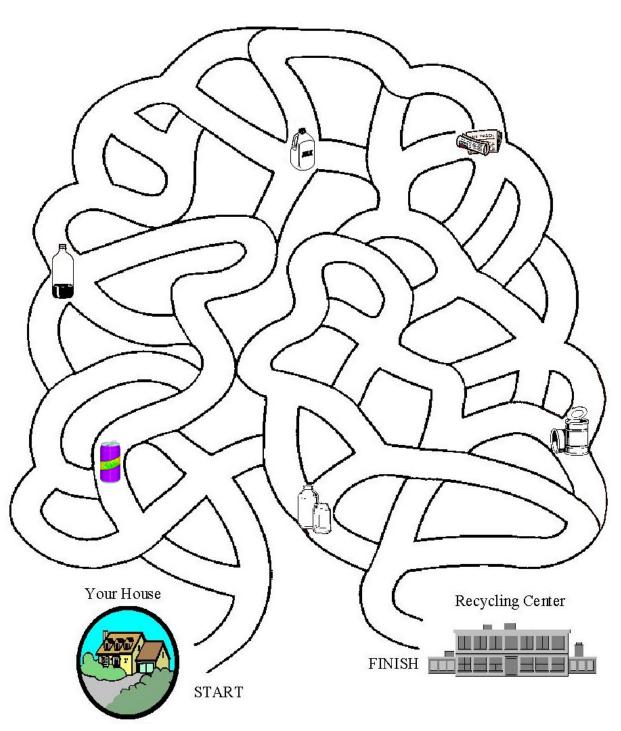
ENVIRONMENTAL BINGO



America Recycles Day in Kansas Recycling Maze



With a pencil or crayon, follow the path from your house to the recycling center. Collect all six recyclables along the way. Do not cross any lines.





America Recycles Day in Kansas "CAN YOU FIND IT?"



Look from left to right and up to down to find these words:

ALUMINUM PAPER RECYCLE

EARTH PLASTIC REUSE

GLASS TRASH REDUCE









G	R	Е	С	Y	С	L	Е
L	P	A	P	Е	R	A	J
A	L	U	M	I	N	U	M
S	A	R	Е	D	U	C	Е
S	S	Е	В	I	L	K	D
Е	T	U	T	R	A	S	Н
С	I	S	Н	N	O	P	M
F	C	Е	A	R	T	Н	G













America Recycles Day in Kansas Word Search





Find the recycling words in this puzzle:

REDUCE

DECOMPOSE

RECYCLE

LANDFILL

GLASS

REUSE

PLASTIC

GARBAGE

COMPOST

METALS

YARDWASTE

PAPER

A	Н	J	X	K	О	M	I	Z	I	Т	K	Y	P	N	Q	Т
R	P	S	С	Т	A	В	Н	Е	С	R	A	U	V	Y	W	A
Е	О	G	L	A	S	S	W	U	R	Е	Q	F	P	A	Е	X
D	S	J	R	R	W	F	J	M	О	P	A	P	Е	R	R	В
U	Е	Q	D	Н	О	G	D	Е	Z	L	M	W	S	D	Т	U
С	Z	С	О	M	P	О	S	Т	Q	A	L	G	U	W	Y	W
Е	L	S	X	С	V	G	F	A	Ι	S	S	D	Z	A	U	D
W	P	D	J	K	Т	Z	Н	L	Y	Т	В	N	F	S	Ι	G
N	G	Е	Е	N	С	P	U	S	K	I	D	U	Q	Т	О	M
Y	T	С	Е	X	L	S	A	R	Е	С	Y	С	L	Е	P	N
В	W	О	I	A	Q	О	G	M	U	J	G	Е	A	В	L	В
Т	F	M	V	Y	M	Н	A	Н	В	F	M	L	N	P	K	V
P	J	P	U	F	R	D	R	K	K	L	A	W	D	R	J	С
M	D	О	S	V	K	J	В	D	G	W	Y	В	F	Т	Н	X
Т	W	S	P	Е	С	Z	A	С	X	Y	С	I	I	N	G	Z
Y	R	Е	U	S	Е	V	G	X	V	R	X	X	L	V	F	A
В	N	U	I	L	Q	M	Е	В	S	О	T	L	L	О	D	S





America Recycles Day in Kansas Word Search Answer Key



A	Н	J	X	K	О	M	Ι	Z	Ι	Т	K	Y	P	N	Q	T
R	P	S	C	T	A	В	Н	Е	C	R	A	U	V	Y	W	A
E	О	G	L	A	S	S	W	U	R	Е	Q	F	P	A	Е	X
D	S	J	R	R	W	F	J	M	О	P	A	P	E	R	R	В
U	Е	Q	D	Н	О	G	D	E	Z	L	M	W	S	D	Т	U
C	Z	C	O	M	P	О	S	Т	Q	A	L	G	U	W	Y	W
E	L	S	X	С	V	G	F	A	Ι	S	S	D	Z	A	U	D
W	P	D	J	K	T	Z	Н	L	Y	T	В	N	F	S	I	G
N	G	E	Е	N	C	P	U	S	K	I	D	U	Q	T	О	M
Y	Т	C	Е	X	L	S	A	R	E	C	Y	C	L	E	P	N
В	W	O	I	A	Q	О	G	M	U	J	G	Е	A	В	L	В
T	F	M	V	Y	M	Н	A	Н	В	F	M	L	N	P	K	V
P	J	P	U	F	R	D	R	K	K	L	A	W	D	R	J	C
M	D	0	S	V	K	J	В	D	G	W	Y	В	F	T	Н	X
Т	W	S	P	Е	С	Z	A	С	X	Y	C	I	Ι	N	G	Z
Y	R	E	U	S	E	V	G	X	V	R	X	X	L	V	F	A
В	N	U	I	L	Q	M	E	В	S	О	T	L	L	О	D	S







EPARP	
TSEWA	
SALGS	
CYERLEC	
DLFLNAIL	
CPILTSA	
GEYCLOG	
SRUEE	
TLOCCLE	
ELMAT	
UEDERC	
TAEHR	
Use t	the letters in the boxes to complete the sentences:
	"Buy recycled whenever possible."
	Hint: "Don't cut down that!"

WORD SCRAMBLE ANSWERS

EPARP PAPER

TSEWA WASTE

SALGS GLASS

CYERLEC RECYCLE

DLFLNAIL LANDFILL

CPILTSA PLASTIC

GEYCLOO ECOLOGY

SRUEE REUSE

TLOCCLE COLLECT

ELMAT METAL

UEDERC REDUCE

TAEHR EARTH

Use the letters in the boxes to complete the sentences:

"Buy recycled paper whenever possible."

"Don't cut down that tree."





America Recycles Day in Kansas SAVE - SORT - RECYCLE!



Color the item in each box on this page. Then cut them out and paste them into the proper bin on the next page.



SAVE - SORT - RECYCLE!

